

## Exercise 1: Installing Informix

In this Lab Manual we will cover:-

- Install Informix 14.10. Innovator-C Edition on Linux on a server named **dev**
- Use cooked chunks (filesystem files for data vs. raw disk)
- Initialize an engine named **dev** on a server named **dev** with 2 GB root dbspace which includes a 1 GB physical log

### Installing Informix

1. Download Informix Innovator-C from [IBM Informix Downloads page](#)
2. Create the informix group and informix user

```
root> groupadd informix
root> useradd -g informix -m informix
root> passwd informix
```

3. Create INFORMIXDIR

```
root> mkdir /opt/ibm.ids.14.10.FC10W2.LNX
root> chown informix:informix /opt/ibm.ids.14.10.FC10W2.LNX
root> ln -s /opt/ibm.ids.14.10.FC10W2.LNX /opt/informix
```

4. Setup environment variables

```
root> vi /etc/profile.d/informix.sh

# location of informix install
export INFORMIXDIR=/opt/informix

# add $INFORMIXDIR/bin to PATH for easy execution of Informix commands
export PATH=${INFORMIXDIR}/bin:${PATH}

# I still like to set this env variable even though we used the default location
export INFORMIXSQLHOSTS=${INFORMIXDIR}/etc/sqlhosts

# the name of our Informix instance, matches sqlhosts and DBSERVERNAME in
ONCONFIG
export INFORMIXSERVER=dev

# define the config filename
export ONCONFIG=onconfig.${INFORMIXSERVER}
```

```
ESC+:+wq!
```

5. Change to a temporary directory that holds the tarball from step 1 and untar

```
root> cd /root/tmpininstall
root> tar -xvf ibm.ids.14.10.FC10W2.LNX.tar
```

6. Run the Informix install script `ids_install`. This will install the engine, the CSDK and JDBC. Answer n when asked to run in GUI mode, accept the License Agreement and accept the defaults for everything else

```
root> . /etc/profile.d/informix.sh
root> ./ids_install
```

Follow the instructions given below to finish your installation:

To Begin Installation, Respond to each prompt to proceed to the next step in the installation. If you want to change something on a previous step, type 'back'.

You may cancel this installation at any time by typing 'quit'.

PRESS <ENTER> TO CONTINUE:

Press Enter to continue viewing the license agreement, or enter "1" to accept the agreement, "2" to decline it, "3" to print it, or "99" to go back to the previous screen.: 1

```
=====
Installation Location
-----
```

Choose location for software installation

Default Install Folder: /opt/informix

ENTER AN ABSOLUTE PATH, OR PRESS <ENTER> TO ACCEPT THE DEFAULT  
:

```
=====
Installation or Distribution
-----
```

Select the installation type.

Typical: This installation is pre-configured, and requires a minimal number of configuration choices. Features for common business needs are installed. Includes:  
\*\* Client Software Development Kit (CSDK).  
\*\* Java Database Connectivity (JDBC).

Custom: This installation requires greater knowledge of IBM Informix technology. You can select features and custom server configurations for your specific business needs.

Legacy : Run an installation command to extract Informix media files that you can redistribute by scripts.

RPM: Create a custom RPM Package Manager image that you can deploy as a silent installation.

Optionally install a configured database server instance.  
Minimum disk space required: 75 MB (without a server instance)

- >1- Typical installation
- 2- Custom installation
- 3- Extract the product files (-DLEGACY option)
- 4- Create a RPM package for redistribution

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT::

=====

Server Instance

-----

Type 'back' to go to the previous step or 'quit' to cancel the installation.

Create a database server instance?

- >1- Yes - create a server instance
- 2- No - do not create a server instance

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT:: 2

=====

Disk Space Information (for Installation Target):

Required: 579,046,746 Bytes

Available: 57,303,822,336 Bytes

PRESS <ENTER> TO CONTINUE:

=====

Ready To Install

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InstallAnywhere is now ready to install IBM Informix Software Bundle onto your system at the following location:

/opt/informix

PRESS <ENTER> TO INSTALL:

=====

Installing...

-----

[=====|=====|=====|=====]

[-----|-----||-----|-----]

=====

Installation Complete

-----  
Congratulations! IBM Informix Software Bundle installation is complete.

Product install status:  
Informix Dynamic Server: Successful  
Informix Client-SDK: Successful

For more information about using Informix products, see the IBM Informix 14.10 Information Center at <http://pic.dhe.ibm.com/infocenter/informix/v141/index.jsp>.

PRESS <ENTER> TO EXIT THE INSTALLER:  
[root@oamtraining tmpininstall]#

## Initializing the Engine

End Result:

- Informix engine initialized and running
- 2 GB root dbspace
- 1 GB physical log in the root dbspace

Notes:

- Do not use Journaled Filesystems (JFS) for Informix chunks.
- Switch the user to informix

1. Create the chunks directory in a partition that has enough space to hold your data

```
informix> mkdir /home/informix/chunks
```

2. Create the rootdbs chunk named ROOTDBS.01

```
informix> touch /home/informix/chunks/ROOTDBS.01  
informix> chmod 660 /home/informix/chunks/ROOTDBS.01
```

3. Create the sqlhosts file

```
informix> vi $INFORMIXSQLHOSTS  
  
# sqlhosts field definitions  
# field 1 - DBSERVERNAME  
# field 2 - network protocol, onsoctcp is for socket based TCP  
# field 3 - hostname or ip address of server running the engine  
# field 4 - port number or service from /etc/services  
# field 5 - optional options
```

```
#  
dev onsoctcp 192.168.75.139 idstcp01
```

4. Create ONCONFIG file and change ROOTPATH, ROOTSIZE, PHYSFILE and DBSERVERNAME

```
informix> cp $INFORMIXDIR/etc/onconfig.std $INFORMIXDIR/etc/$ONCONFIG  
informix> vi $INFORMIXDIR/etc/$ONCONFIG
```

```
ROOTPATH /home/informix/chunks/ROOTDBS.01  
ROOTSIZE 2097152  
PHYSFILE 1048576  
DBSERVERNAME dev
```

5. Add idstcp01 port to /etc/services

```
root> vi /etc/services  
  
idstcp01      1526/tcp      # Informix
```

6. Add dev host in hosts file

```
root> vi /etc/hosts  
  
192.168.75.135 dev
```

7. Initialize the engine

```
informix> oninit -iv
```

Use **onstat -m** to resolve any errors if occurred.